

JCWSCS 11 MAY 2004



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## FAX COVER SHEET

Date: May 11, 2004 Client Code: 6536-139  
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Subject: Serial No. 10/750,014  
Request for Corrected Filing Receipt  
From: Orlando Lopez Direct Dial: (617) 854-4166  
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Pages: 6, including this cover sheet.

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## TRANSMITTAL FORM

(TO BE USED FOR ALL CORRESPONDENCE AFTER MARCH 1, 2003)

Total Number of Pages in This Submission \_\_\_\_\_

Application Number	10/750,014
Filing Date	December 31, 2003
First Named Inventor	Thomas A. Mitchell
Art Unit	2873
Examiner Name	TBD
Attorney Docket Number	6536-139

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD Number or CD(s) _____ <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Remarks</div>	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="margin-top: 5px;">Request for Corrected Filing Receipt with attachments; facsimile cover sheet.</div>

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or individual name	Orlando Lopez, Reg No 46,880
Signature	
Date	May 11, 2004

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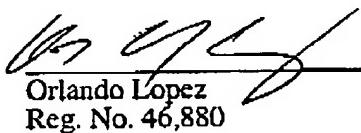
Typed or printed name	Orlando Lopez
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Date	May 11, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and/or CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Orlando Lopez  
Reg. No. 46,880

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Thomas A. Mitchell  
Application Serial No. 10/750,014  
Filed: December 31, 2003  
Title: COMPACT HYPERSPECTRAL IMAGER

Group Art Unit: 2873  
Confirmation No.: 9342  
Examiner: TBD

Perkins Smith & Cohen LLP  
One Beacon Street  
Boston, MA 02108  
(617) 854-4000

To: Commissioner for Patents  
Office of Initial Patent Examination  
Filing Receipt Corrections  
Facsimile No. (703) 746-9195

**REQUEST FOR CORRECTED FILING RECEIPT**

Sir:

In the above-identified patent application, a corrected filing receipt is requested.

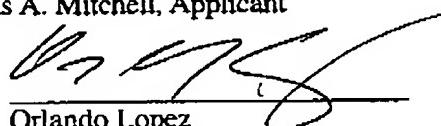
In the filing receipt, the title of the application should read "Compact hyperspectral imager", as evidenced by the title in the first page of the application (copy attached). The Commissioner for Patents inadvertently replaced the word "imager" with "image" in the title of the invention. A copy of the filing receipt with the correction noted is also attached.

Although no fee is required, the Commissioner for Patents is hereby authorized to charge any deficiencies or to credit any overpayment to Deposit Account No. 03-2410, Order No. 6536-139.

Date: May 11, 2004

Respectfully submitted,  
Thomas A. Mitchell, Applicant

By:

  
Orlando Lopez  
Reg. No. 46,880  
Agent for Applicant

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/750,014	12/31/2003	2873	468	6536-139	6 ✓	29 ✓	3 ..

CONFIRMATION NO. 9342

26486  
PERKINS, SMITH & COHEN LLP  
ONE BEACON STREET  
30TH FLOOR  
BOSTON, MA 02108

**FILING RECEIPT**

OC000000012527275

Date Mailed: 05/05/2004

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**Applicant(s)**

Thomas A. Mitchell, Nazareth, PA;

**Assignment For Published Patent Application**

Wavefront Research, Inc.;

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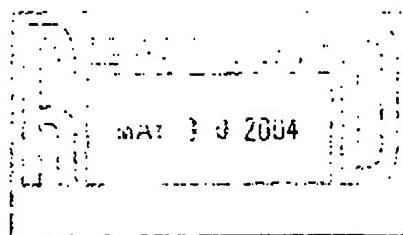
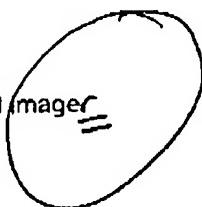
Time 10,2004 CORRECT FILING RECEIPT

**Domestic Priority data as claimed by applicant**

This appln claims benefit of 60/437,629 12/31/2002

**Foreign Applications****If Required, Foreign Filing License Granted: 05/04/2004****Projected Publication Date: 08/12/2004****Non-Publication Request: No****Early Publication Request: No****\*\* SMALL ENTITY \*\*****Title**

Compact hyperspectral imager



Preliminary Class  
351

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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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# COPY

Express Mail Label No. EL449702084US Date of Deposit: 12/31/03  
COMPACT HYPERSPECTRAL IMAGER

## CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority of U. S. Provisional Application 60/437,629 filed on December 31, 2002, which is incorporated by reference herein.

## BACKGROUND OF THE INVENTION

[0002] This invention relates generally to hyperspectral imagers, and, more particularly, to a hyperspectral imager design that is easier and less costly to fabricate, more compact in physical size and mass, and superior in spectral and spatial imaging quality than previous designs.

[0003] A hyperspectral imager is a known device that is commonly used to examine the spectral, or wavelength dependent, content of an object or scene. (Hyperspectral imagers are also referred to as imaging spectrometers.) In a hyperspectral imager light emitted or reflected by a given object or scene is imaged onto the entrance of a spectrometer, usually a slit element that transmits a single line image of the object or scene. The spectrometer in turn re-images this light to another location while dispersing this light according to its wavelength in a direction orthogonal to the orientation of the slit element, where it can readily be observed or recorded. In this manner, each slice of the object or scene is decomposed into a two-dimensional data array, and by scanning the object or scene in line-by-line increments, a three-dimensional data cube is formed.

[0004] Because every material has a unique spectral signature, the hyperspectral imager has become a very